

Title (en)

Seal plate for a turbine engine

Title (de)

Dichtungsplatte für Turbinenmotor

Title (fr)

Plaque d'étanchéité pour moteur à turbine

Publication

EP 0833039 B1 20011212 (EN)

Application

EP 97306526 A 19970826

Priority

GB 9620070 A 19960926

Abstract (en)

[origin: EP0833039A1] An annular seal plate (40) for an interstage air riding seal arrangement for the internal cooling system of a gas turbine engine is mounted on a rotatable disc (2) by means of an annular mortise and tenon mounting (44,54). The contact faces (58,60) of the mortise and tenon are angled relative to a radial plane of the disc so that centrifugally generated forces (Ry) are reacted by the faces in a sense to counter axial tilt so that a seal face of the plate lies exactly in a radial plane, at a design rotational speed, thereby to eliminate converge or divergence between the seal faces of the air riding seal. <IMAGE>

IPC 1-7

F01D 11/00

IPC 8 full level

F01D 11/00 (2006.01)

CPC (source: EP US)

F01D 5/3015 (2013.01 - EP); **F01D 11/006** (2013.01 - EP US)

Cited by

US8074997B2; EP1357254A3; EP1120545A3; EP3159480A1; GB2410984A; GB2410984B; EP3626933A1; US7938402B2; US8550785B2; US8657297B2; WO2010099193A3; WO2011156804A1; US10787921B2; US7258529B2

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